

DOCUMENT RESUME

ED 073 387

CG 007 819

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 TITLE Supervising Paraprofessionals: Performance-Related Feedback.
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 PUE DATE 72
 GRANT OEG-3-7-070706-3118
 NOTE 17p.
 EDRS PRICE MF-\$0.65 HC-\$3.29
 DESCRIPTORS Evaluation; *Feedback; Models; Nonprofessional Personnel; *Paraprofessional School Personnel; Performance; Performance Factors; Supervision; *Supervisors; *Supervisory Activities; *Supervisory Methods; Tutoring

ABSTRACT

Although increasing use of paraprofessionals to implement key program concepts has the advantage of increased availability and lower salaries, problems in maintaining acceptable levels of performance have also been reported. This study assessed the role of performance-related feedback on the work behavior of paraprofessional tutors in a remedial reading program. One randomly chosen tutor received publicly posted feedback each day on (1) degree of completeness with which one student's answers to comprehension-check questions were tutored; (2) accuracy with which that student's data sheet had been computed; and (3) time at which the first student's tutorial session had begun. The simple feedback package produced significant improvement in the measured level of the first two work-related behaviors, but not in the third. It was concluded that simple informational feedback and the objective measures of work performance on which it is based may be of considerable practical importance to supervisors in insuring satisfactory work performance by paraprofessionals in applied programs. (Author)

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ED 075387

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1. *Chlorophyll a* and *Chlorophyll b* were determined by the method of Lichtenthaler and Whistler (1973).

1. In order for researchers' increasing reliance upon the use of paraprofessionals to implement their programs to be successful, it is essential to identify such apparent advantages as increased cost-effectiveness and higher salaries, problems in maintaining acceptable levels of on-the-job performance in these workers have been reported. This study assessed the role of job-related feedback on the work behavior of paraprofessional workers in a remedial reading program. One randomly chosen tutor received publicly-posted feedback each day on (1) the degree of completeness with which one student's individual comprehension-check questions were answered; (2) the accuracy of the student's data sheet; and (3) the time at which the first student's tutorial session had begun. The simple feedback package produced significant improvement in the measured level of the first two work-behavior categories, but not in the third, and subsequent increases in the number of tutor performances to correct feedback produced no additional improvement in this behavior. It was concluded that simple informational feedback (and the objective measure of work performance on which it is based) may be of considerable practical importance to supervisors in ensuring acceptable work performance by paraprofessionals in applied programs.

Internal Validity

With the current emphasis on technology of application of behavior analysis, significant numbers of people have been directed toward the use of paraprofessionals in the treatment of individuals with developmental disabilities (Lindson, Stadenhall and Linder, 1965). A clear scientific shift, reported with increasing frequency, is the use of paraprofessional personnel to deliver the behavioral programs (Donato, Linder, 1970; Lindson, 1974). Despite the use of paraprofessionals, the quality and level of behavior, and the level of satisfaction, of the individuals have been reported (Lindson, 1974).

Performance-maintenance has been used as a measure of the effectiveness of programs employing paraprofessionals to assess the effect of intervention techniques that are carefully specified. It is often some form of assurance that the procedures have been carried out, the investigator who obtains less than a desired experimental results, may erroneously attribute such success only to the nature of the intervention package employed.

Given such problems, what controlling variables do applied supervisors have at their disposal to either prevent or enhance performance decrements in workers? One potential source of performance control is the variable known as feedback, or knowledge of results on performance. Simple information has been used by investigators to enhance performance in simulated work settings (Cibbo & Brown, 1955); actual feedback

Subjects and Reading

During the pre-reading program, one hundred and thirty-four subjects were recruited. There were 100 female and 34 male subjects (ages 14 and 15), one had completed a high school diploma and the other had earned her high school diploma. These subjects received a maximum of 5 hours per week for an hourly salary of \$2.00. These additional 5 subjects were high school students employed through the Jefferson Youth Corps. They were employed 40 hours per week for a salary of \$4.00 per hour.

The initial reading program was run in the school. The reading rooms had small rooms for reading, and a large room for a desk, chairs, point-counter, electronic typewriter, copy-machine and intercom. Students were tutored on a one-to-one basis for 30 minutes each week-day after school. While students read stories aloud, and answered questions about the materials, tutors monitored their performance, identified spelling and subtracting points (Christopherson, Smith and Wolf, 1974), which could be exchanged for money at the reading room.

Three distinct classes of tutor behavior were examined. They were 1) completeness of tutoring, 2) accuracy of tutor instructions, and 3) the time tutoring was required each day.

I. Complete Tutoring

For complete tutoring, tutors had been trained to give their verbal praise statements following each correct answer.

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... the number of correct answers was divided by the number of questions and multiplied by 100 to obtain the percentage.

The reliability of observations was assessed using the inter-rater agreement procedure. Two observers, one of whom was the researcher, observed the students' work and recorded the number of correct answers, question by question, and the number of incorrect answers. An overall percent correct was then obtained by adding the number of correct answers and dividing by the number of questions and multiplying by 100.

III. Accuracy of Calculations

The accuracy with which each student solved the problem was recorded on each student's work sheet and the accuracy of the student's performance was recorded on the second department report the performance measure.

Two calculation procedures were obtained: the student's percent answer accuracy and his percent sentence accuracy. In order to obtain the student's percent answer accuracy, the number of correct answers was divided by the total number of questions answered; then multiplied by 100 to obtain the result on the data sheet. In addition, the sequence of operations was recorded in computing the percent answer accuracy measure.

At the close of each day, all data sheets were reviewed by a data reviewer and entered as being right or wrong. The student's answer was compared to the operation and to the correct answer. If the student's answer was correct, the operation was correct, and the answer was correct, the student's answer was correct. If the student's answer was incorrect, the operation was incorrect, or the answer was incorrect, the student's answer was incorrect.

[illegible][illegible]

3. The Negative Effect

[illegible]

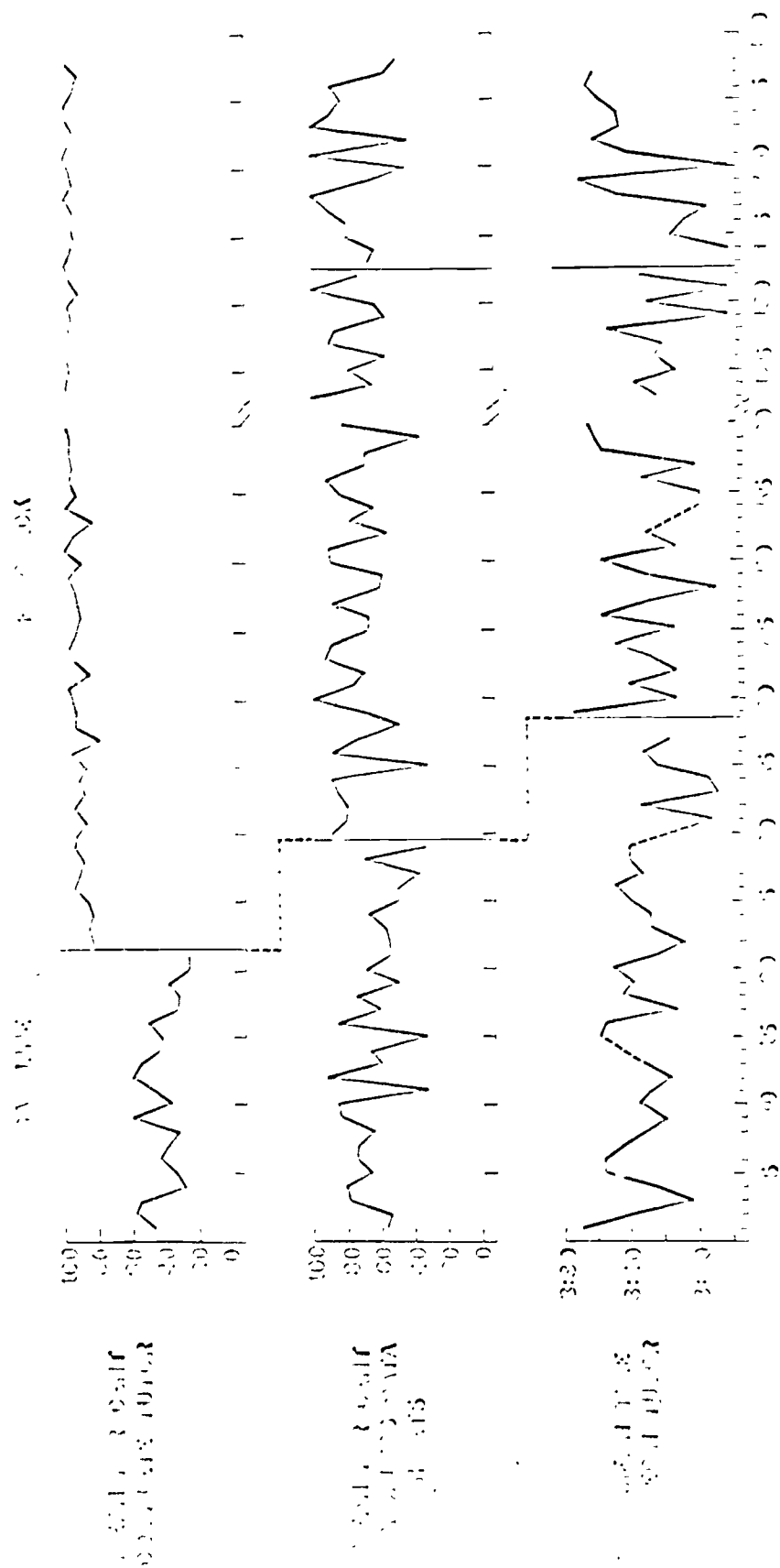
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Condition: Complete Vector

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It is a matter of common knowledge that the United States has been a leading force in the development of the world's economy. The United States has been a leading force in the development of the world's economy. The United States has been a leading force in the development of the world's economy.

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